

CLAIMS

(as per clarified set filed November 29, 2000 in Response to PCT Written Opinion):

1. Disinfecting agents for combating and inactivating phytopathogenic organisms
5 for use on plants and in the environment of plants, containing anionic surfactants, aliphatic and aromatic carboxylic acids in aqueous or aqueous-alcoholic solutions, characterized in that they contain mono-, di- and/or triglycols.
- 10 2. The disinfecting agents according to claim 1, characterized in that they contain aliphatic and aromatic carboxylic acids, preferably synergistically active microbicidal combinations of aliphatic and aromatic carboxylic acids, preferably methanoic acid, ethanoic acid, propanoic acid, hydroxyethanoic acid, 2-hydroxypropionic acid, oxoethanoic acid, 2-oxopropionic acid, 4-oxovaleric acid, benzoic acid, o-, m-, p-hydroxybenzoic acids, 3,4,5-tri-hydroxybenzoic acid, individually or mixed, in combination with alkyl sulfonates and/or alkylarylsulfonates and their sodium-, potassium- and ammonium salts, with primary chains with a length of C8 – C18 as anionic surfactants.
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- 20 3. The disinfecting agents according to claim 1 or 2, characterized in that they contain ethylene glycol, propylene glycol, 2,3-butylene glycol, diethylene glycol [2,2'-dihydroxydiethylether], triethylene glycol [(1,2-di-2-hydroxyethoxyl-ethane)] [sic] individually or in a mixture with each other,
- 25 4. The disinfecting agents according to claims 1 to 3, characterized in that they contain hydrotropic agents, in particular toluene sulfonate and/or cumene sulfonate as sodium- or potassium salts and primary and/or secondary aliphatic, monovalent alcohols

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with a chain length of C2 – C8, preferably monovalent alcohols, individually or as a mixture.

5. The disinfecting agents according to claims 1 to 4, characterized in that the weight ratio of the aliphatic acids (A) to the aromatic acids (B) can be between 1 : 9 and 9 : 1 and their sum can be between 5 and 40 % by wt. relative to the total weight of the disinfecting-agent concentrate.

10. 6. The disinfecting agents according to claims 1 to 5, characterized in that the weight ratio of the alkyl sulfonates and/or alkylarylsulfates and their salts (C) with the acids (A+B) in the ratio C : (B+A) can be = 1 : 9 and 9 : 1 and their sum can be between 10 and 60 % relative to the total weight of the disinfecting-agent concentrate.

15. 7. The disinfecting agents according to claims 1 to 6, characterized in that the weight component of the glycols relative to the total weight of the disinfecting-agent concentrate can be between 10 and 40 % by wt.

20. 8. The disinfecting agents according to claims 1 to 7, characterized in that the weight ratio of the hydrotropic agents toluene sulfonate and cumene sulfonate, their sodium- or potassium salts, individually or in a mixture with each other, can be between 5 and 40 % by wt. relative to the total weight of the disinfecting-agent concentrate.

25. 9. The disinfecting agents according to claims 1 to 8, characterized in that with each other, can be between 5 and 60 % by wt. relative to the total weight of the disinfecting-agent concentrate.

10. The use of the disinfecting agents according to claims 1 to 9 for combating phytopathogenic microorganisms on a vital plant or in its environment, characterized by a content of 0.5 to 10 % by wt. of the disinfection-agent concentrate in dilute aqueous solutions.



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